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* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 4 MAY 10 CA/CAPLUS enhanced with 1900-1906 U.S. patent records
NEWS 5 MAY 11 KOREAPAT updates resume
NEWS 6 MAY 19 Derwent World Patents Index to be reloaded and enhanced
NEWS 7 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and
USPATFULL/USPAT2
NEWS 8 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS
NEWS 9 JUN 02 The first reclassification of IPC codes now complete in
INPADOC
NEWS 10 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and
and display fields
NEWS 11 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 12 JUL 11 CHEMSAFE reloaded and enhanced
NEWS 13 JUL 14 FSTA enhanced with Japanese patents
NEWS 14 JUL 19 Coverage of Research Disclosure reinstated in DWPI
NEWS 15 AUG 09 INSPEC enhanced with 1898-1968 archive
NEWS 16 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 17 AUG 30 CA(SM)/CAPLUS(SM) Austrian patent law changes
NEWS 18 SEP 11 CA/CAPLUS enhanced with more pre-1907 records
NEWS 19 SEP 21 CA/CAPLUS fields enhanced with simultaneous left and right
truncation
NEWS 20 SEP 25 CA(SM)/CAPLUS(SM) display of CA Lexicon enhanced
NEWS 21 SEP 25 CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 22 SEP 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 23 SEP 28 CEABA-VTB classification code fields reloaded with new
classification scheme

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8
NEWS X25 X.25 communication option no longer available

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:44:18 ON 28 SEP 2006

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 12:44:27 ON 28 SEP 2006
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FILE COVERS 1907 - 28 Sep 2006 VOL 145 ISS 14
FILE LAST UPDATED: 27 Sep 2006 (20060927/ED)

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<http://www.cas.org/infopolicy.html>

=> s us 20040146955/pn
L1 1 US 20040146955/PN
(US2004146955/PN)

=> sel rn
E1 THROUGH E108 ASSIGNED

=> file reg
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.49	2.70

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 12:44:43 ON 28 SEP 2006
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STRUCTURE FILE UPDATES: 27 SEP 2006 HIGHEST RN 909000-49-3
DICTIONARY FILE UPDATES: 27 SEP 2006 HIGHEST RN 909000-49-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> s e1-e108

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 COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.44	3.14

FULL ESTIMATED COST

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FILE COVERS 1907 - 28 Sep 2006 VOL 145 ISS 14
 FILE LAST UPDATED: 27 Sep 2006 (20060927/ED)

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=> s 12

L3 22388 L2

=> s 12/thu

22388 L2

816051 THU/RL

L4 1169 L2/THU

(L2 (L) THU/RL)

=> s cancer? or tumor? or neoplas?

307106 CANCER?

442741 TUMOR?

464671 NEOPLAS?

L5 733490 CANCER? OR TUMOR? OR NEOPLAS?

=> s 14 (1) 15

L6 67 L4 (L) L5

=> s 16 not py>2002

4389687 PY>2002

L7 18 L6 NOT PY>2002

=> d ibib 1-18

L7 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:153905 CAPLUS

DOCUMENT NUMBER: 138:265037

TITLE: Indisulam Eisai

AUTHOR(S): Supuran, Claudiu T.

CORPORATE SOURCE: Universita degli Studi di Firenze, Dipartimento di
Chimica, Sesto Fiorentino, I-50019, Italy

SOURCE: IDrugs (2002), 5(11), 1075-1079

CODEN: IDRUFN; ISSN: 1369-7056

PUBLISHER: PharmaPress Ltd.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:875612 CAPLUS

DOCUMENT NUMBER: 138:395176

TITLE: E7070: a novel synthetic sulfonamide targeting the
cell cycle progression for the treatment of cancer

AUTHOR(S): van Kesteren, Charlotte; Beijnen, Jos H.; Schellens,
Jan H. M.

CORPORATE SOURCE: Department of Pharmacy and Pharmacology, The
Netherlands Cancer Institute/Slotervaart Hospital,
Amsterdam, 1066 EC, Neth.

SOURCE: Anti-Cancer Drugs (2002), 13(10), 989-997

CODEN: ANTDEV; ISSN: 0959-4973

PUBLISHER: Lippincott Williams & Wilkins

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:804494 CAPLUS

DOCUMENT NUMBER: 138:362245
TITLE: An excretion balance and pharmacokinetic study of the novel anticancer agent E7070 in cancer patients
AUTHOR(S): van den Bongard, H. J. G. Desiree; Pluim, Dick; Rosing, Hilde; Nan-Offeringa, Lianda; Schot, Margaret; Ravic, Miroslav; Schellens, Jan H. M.; Beijnen, Jos H.
CORPORATE SOURCE: Department of Pharmacy and Pharmacology, Slotervaart Hospital/The Netherlands Cancer Institute, Amsterdam, 1066 EC, Neth.
SOURCE: Anti-Cancer Drugs (2002), 13(8), 807-814
CODEN: ANTDEV; ISSN: 0959-4973
PUBLISHER: Lippincott Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:708041 CAPLUS
DOCUMENT NUMBER: 137:241842
TITLE: Phase I and pharmacokinetic study of E7070, a novel chloroindolyl sulfonamide cell-cycle inhibitor, administered as a one-hour infusion every three weeks in patients with advanced cancer
AUTHOR(S): Raymond, E.; ten Bokkel Huinink, W. W.; Taieb, J.; Beijnen, J. H.; Faivre, S.; Wanders, J.; Ravic, M.; Fumoleau, P.; Armand, J. P.; Schellens, J. H. M.
CORPORATE SOURCE: European Organization for the Research and Treatment of Cancer Early Clinical Study Group, Institut Gustave-Roussy, Villejuif, 94805, Fr.
SOURCE: Journal of Clinical Oncology (2002), 20(16), 3508-3521
CODEN: JCONDN; ISSN: 0732-183X
PUBLISHER: Lippincott Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:603243 CAPLUS
DOCUMENT NUMBER: 138:163096
TITLE: Acetazolamide suppresses tumor metastasis and related protein expression in mice bearing Lewis lung carcinoma
AUTHOR(S): Xiang, Yang; Ma, Bing; Li, Tao; Yu, He-Ming; Li, Xue-Jun
CORPORATE SOURCE: Department of Pharmacology, School of Basic Medical Sciences, Peking University, Beijing, 100083, Peop. Rep. China
SOURCE: Acta Pharmacologica Sinica (2002), 23(8), 745-751
CODEN: APSCG5; ISSN: 1671-4083
PUBLISHER: Science Press
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:346758 CAPLUS
DOCUMENT NUMBER: 138:61168
TITLE: Transnasal chemotherapy of the brain tumor utilizing the direct transport pathway between the nose and the cerebrospinal fluid
AUTHOR(S): Sakane, T.; Yamashita, S.; Yata, N.; Sezaki, H.; Tokunaga, Y.; Shibata, S.

CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Setsunan University, Osaka, 573-0101, Japan
 SOURCE: Proceedings - 28th International Symposium on Controlled Release of Bioactive Materials and 4th Consumer & Diversified Products Conference, San Diego, CA, United States, June 23-27, 2001 (2001), Volume 1, 225-226. Controlled Release Society: Minneapolis, Minn.
 CODEN: 69CNY8
 DOCUMENT TYPE: Conference
 LANGUAGE: English
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:724918 CAPLUS
 DOCUMENT NUMBER: 136:395443
 TITLE: Mechanisms of action of the novel sulfonamide anticancer agent E7070 on cell cycle progression in human non-small cell lung cancer cells
 AUTHOR(S): Fukuoka, Kazuya; Usuda, Jitsuo; Iwamoto, Yasuo; Fukumoto, Hisao; Nakamura, Takashi; Yoneda, Takahiro; Narita, Nobuhiro; Saijo, Nagahiro; Nishio, Kazuto
 CORPORATE SOURCE: Pharmacology Division, National Cancer Center Research Institute, Tokyo, Japan
 SOURCE: Investigational New Drugs (2001), 19(3), 219-227
 CODEN: INNDDK; ISSN: 0167-6997
 PUBLISHER: Kluwer Academic Publishers
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:455364 CAPLUS
 DOCUMENT NUMBER: 133:38216
 TITLE: Preparation of sulfanilamide derivative for diagnosis and treatment of tumor
 INVENTOR(S): Tan, Lisong; Li, Libin; Su, Bo
 PATENT ASSIGNEE(S): Shanghai No.1 Pulmonary Department Hospital, Peop. Rep. China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 24 pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1214264	A	19990421	CN 1997-106657	19971015
PRIORITY APPLN. INFO.:			CN 1997-106657	19971015

L7 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:176258 CAPLUS
 DOCUMENT NUMBER: 132:303120
 TITLE: Carbonic anhydrase inhibitor suppresses invasion of renal cancer cells in vitro
 AUTHOR(S): Parkkila, Seppo; Rajaniemi, Hannu; Parkkila, Anna-Kaisa; Kivela, Jyrki; Waheed, Abdul; Pastorekova, Silvia; Pastorek, Jaromir; Sly, William S.
 CORPORATE SOURCE: Departments of Anatomy and Cell Biology, Clinical Chemistry, 90014 University of Oulu, Finland
 SOURCE: Proceedings of the National Academy of Sciences of the United States of America (2000), 97(5), 2220-2224

PUBLISHER: CODEN: PNASA6; ISSN: 0027-8424
DOCUMENT TYPE: National Academy of Sciences
LANGUAGE: Journal
REFERENCE COUNT: English
26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:712802 CAPLUS
DOCUMENT NUMBER: 132:227295
TITLE: Transnasal delivery of anticancer drugs to the brain
tumor: a new strategy for brain tumor chemotherapy
AUTHOR(S): Shingaki, Tomotaka; Sakane, Toshiyasu; Yamashita,
Shinji; Sezaki, Hitoshi; Tokunaga, Yoshiharu; Shibata,
Shobu
CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Setsunan
University, Setsunan, Japan
SOURCE: Drug Delivery System (1999), 14(5), 365-371
CODEN: DDSYEI; ISSN: 0913-5006
PUBLISHER: Nippon DDS Gakkai Jimukyoku
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

L7 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:773985 CAPLUS
DOCUMENT NUMBER: 130:248135
TITLE: Chinese herbs nephropathy-associated slimming regimen
induces tumors in the forestomach but no interstitial
nephropathy in rats
AUTHOR(S): Cosyns, Jean-Pierre; Goebbels, Rose-Marie; Liberton,
Vinciane; Schmeiser, Heinz H.; Bieler, Christian A.;
Bernard, Alfred M.
CORPORATE SOURCE: Cliniques Universitaires St. Luc, Department of
Pathology, ANPS 1712 Catholic University of Louvain
Medical School, Brussels, B-1200, Belg.
SOURCE: Archives of Toxicology (1998), 72(11), 738-743
CODEN: ARTODN; ISSN: 0340-5761
PUBLISHER: Springer-Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:750281 CAPLUS
DOCUMENT NUMBER: 130:208022
TITLE: Carbonic anhydrase II as a marker of malignant
features for colorectal cancer
AUTHOR(S): Bekku, Shinya; Yamamoto, Tetsuhisa; Mochizuki,
Hidetaka
CORPORATE SOURCE: Department of First Surgery, National Defence Medical
College, Japan
SOURCE: Igaku no Ayumi (1998), 186(12), 891-892
CODEN: IGAYAY; ISSN: 0039-2359
PUBLISHER: Ishiyaku Shuppan
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

L7 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:640364 CAPLUS
DOCUMENT NUMBER: 129:242205
TITLE: Rapid method of cancer diagnosis by measuring
activation of carbonic anhydrase II by blood serum
tumor markers
INVENTOR(S): Puscas, Ioan; Puscas, Iuliana Carmen; Coltau, Marcela;

PATENT ASSIGNEE(S): Domuta, Gabriela; Baican, Michael
 SOURCE: Rom.
 PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9841649	A2	19980924	WO 1998-EP1465	19980313
WO 9841649	A3	19981223		
W: AL, AU, BB, BG, BR, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
RO 114835	B3	19990730	RO 1997-502	19970317
CA 2284632	AA	19980924	CA 1998-2284632	19980313
AU 9867298	A1	19981012	AU 1998-67298	19980313
AU 738843	B2	20010927		
EP 972072	A2	20000119	EP 1998-912475	19980313
EP 972072	B1	20011121		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, SI, LT, FI, RO				
BR 9808373	A	20000523	BR 1998-8373	19980313
NZ 337850	A	20010727	NZ 1998-337850	19980313
JP 2001524815	T2	20011204	JP 1998-540117	19980313
AT 209256	E	20011215	AT 1998-912475	19980313
MX 9908488	A	20000531	MX 1999-8488	19990915
PRIORITY APPLN. INFO.:				
			RO 1997-502	A 19970317
			WO 1998-EP1465	W 19980313

L7 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:465838 CAPLUS
 DOCUMENT NUMBER: 129:228986
 TITLE: Immunohistochemical study of colorectal tumors for expression of a novel transmembrane carbonic anhydrase, MN/CA IX, with potential value as a marker of cell proliferation
 AUTHOR(S): Saarnio, Juha; Parkkila, Seppo; Parkkila, Anna-Kaisa; Haukipuro, Kari; Pastorekova, Silvia; Pastorek, Jaromir; Kairaluoma, Matti I.; Karttunen, Tuomo J.
 CORPORATE SOURCE: Department of Surgery, University of Oulu, Oulu, SF-90220, Finland
 SOURCE: American Journal of Pathology (1998), 153(1), 279-285
 CODEN: AJPA44; ISSN: 0002-9440
 PUBLISHER: American Society for Investigative Pathology
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:334002 CAPLUS
 DOCUMENT NUMBER: 129:51697
 TITLE: The immunoassay of carbonic anhydrase for screening colon cancer
 INVENTOR(S): Yokoyama, Yukio
 PATENT ASSIGNEE(S): Yokoyama, Yukio, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 2 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10132822	A2	19980522	JP 1996-327494	19961101
PRIORITY APPLN. INFO.:			JP 1996-327494	19961101

L7 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:537618 CAPLUS
DOCUMENT NUMBER: 127:130994
TITLE: Use of carbonic anhydrase inhibitors to prepare a drug
for cancer therapy
INVENTOR(S): Lang, Hans Jochen; Gericke, Dietmar
PATENT ASSIGNEE(S): Hoechst A.-G., Germany; Lang, Hans Jochen; Gericke,
Dietmar
SOURCE: PCT Int. Appl., 16 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9725039	A1	19970717	WO 1996-EP5793	19961220
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
DE 19600721	A1	19970717	DE 1996-19600721	19960112
AU 9713046	A1	19970801	AU 1997-13046	19961220
PRIORITY APPLN. INFO.:			DE 1996-19600721	A 19960112
			WO 1996-EP5793	W 19961220

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1996:262841 CAPLUS
DOCUMENT NUMBER: 124:314359
TITLE: A marker antigen for non-small cell lung cancer and a
cDNA encoding it and their uses
INVENTOR(S): Torczynski, Richard M.; Bollon, Arthur P.
PATENT ASSIGNEE(S): Cytoclonal Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 86 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9602552	A1	19960201	WO 1995-US9145	19950719
W: AU, BR, CA, CN, FI, JP, KE, KR, LK, MN, MX, NO, NZ, PL, RU, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5589579	A	19961231	US 1994-276919	19940719
CA 2195403	AA	19960201	CA 1995-2195403	19950719
AU 9533592	A1	19960216	AU 1995-33592	19950719
AU 700915	B2	19990114		
EP 804451	A1	19971105	EP 1995-930093	19950719
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
BR 9508417	A	19971118	BR 1995-8417	19950719

JP 10503087	T2	19980324	JP 1995-505257	19950719
US 5773579	A	19980630	US 1997-776088	19970121
PRIORITY APPLN. INFO.:			US 1994-276919	A 19940719
			WO 1995-US9145	W 19950719

L7 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1970:475517 CAPLUS
 DOCUMENT NUMBER: 73:75517
 TITLE: Oncostatic activities of some fluoro compounds against Ehrlich carcinoma in mice
 AUTHOR(S): Nakahara, Toru; Miyamoto, Fumiko; Kayama, Tokihiko
 CORPORATE SOURCE: Wakayama Univ., Wakayama, Japan
 SOURCE: Wakayama Daigaku Gakugeigakubu Kiyo, Shizenkagaku (1968), No. 18, 15-17
 CODEN: WDGKAJ; ISSN: 0507-8318
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese

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(FILE 'HOME' ENTERED AT 12:44:18 ON 28 SEP 2006)

FILE 'CAPLUS' ENTERED AT 12:44:27 ON 28 SEP 2006

L1 1 S US 20040146955/PN
 SEL RN

FILE 'REGISTRY' ENTERED AT 12:44:43 ON 28 SEP 2006

L2 108 S E1-E108

FILE 'CAPLUS' ENTERED AT 12:44:58 ON 28 SEP 2006

L3 22388 S L2
 L4 1169 S L2/THU
 L5 733490 S CANCER? OR TUMOR? OR NEOPLAS?
 L6 67 S L4 (L) L5
 L7 18 S L6 NOT PY>2002

=> s 17 and sulfonam?

33901 SULFONAM?

L8 5 L7 AND SULFONAM?

=> d ibib 1-5

L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:153905 CAPLUS
 DOCUMENT NUMBER: 138:265037
 TITLE: Indisulam Eisai
 AUTHOR(S): Supuran, Claudiu T.
 CORPORATE SOURCE: Universita degli Studi di Firenze, Dipartimento di Chimica, Sesto Fiorentino, I-50019, Italy
 SOURCE: IDrugs (2002), 5(11), 1075-1079
 CODEN: IDRUFN; ISSN: 1369-7056
 PUBLISHER: PharmaPress Ltd.
 DOCUMENT TYPE: Journal; General Review
 LANGUAGE: English
 REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:875612 CAPLUS
 DOCUMENT NUMBER: 138:395176
 TITLE: E7070: a novel synthetic sulfonamide targeting the cell cycle progression for the treatment of cancer
 AUTHOR(S): van Kesteren, Charlotte; Beijnen, Jos H.; Schellens,

CORPORATE SOURCE: Jan H. M.
Department of Pharmacy and Pharmacology, The
Netherlands Cancer Institute/Slotervaart Hospital,
Amsterdam, 1066 EC, Neth.
SOURCE: Anti-Cancer Drugs (2002), 13(10), 989-997
CODEN: ANTDEV; ISSN: 0959-4973
PUBLISHER: Lippincott Williams & Wilkins
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:804494 CAPLUS
DOCUMENT NUMBER: 138:362245
TITLE: An excretion balance and pharmacokinetic study of the
novel anticancer agent E7070 in cancer patients
AUTHOR(S): van den Bongard, H. J. G. Desiree; Pluim, Dick;
Rosing, Hilde; Nan-Offeringa, Lianda; Schot, Margaret;
Ravic, Miroslav; Schellens, Jan H. M.; Beijnen, Jos H.
CORPORATE SOURCE: Department of Pharmacy and Pharmacology, Slotervaart
Hospital/The Netherlands Cancer Institute, Amsterdam,
1066 EC, Neth.
SOURCE: Anti-Cancer Drugs (2002), 13(8), 807-814
CODEN: ANTDEV; ISSN: 0959-4973
PUBLISHER: Lippincott Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:708041 CAPLUS
DOCUMENT NUMBER: 137:241842
TITLE: Phase I and pharmacokinetic study of E7070, a novel
chloroindolyl sulfonamide cell-cycle
inhibitor, administered as a one-hour infusion every
three weeks in patients with advanced cancer
AUTHOR(S): Raymond, E.; ten Bokkel Huinink, W. W.; Taieb, J.;
Beijnen, J. H.; Faivre, S.; Wanders, J.; Ravic, M.;
Fumoleau, P.; Armand, J. P.; Schellens, J. H. M.
CORPORATE SOURCE: European Organization for the Research and Treatment
of Cancer Early Clinical Study Group, Institut
Gustave-Roussy, Villejuif, 94805, Fr.
SOURCE: Journal of Clinical Oncology (2002), 20(16), 3508-3521
CODEN: JCONDN; ISSN: 0732-183X
PUBLISHER: Lippincott Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:724918 CAPLUS
DOCUMENT NUMBER: 136:395443
TITLE: Mechanisms of action of the novel sulfonamide
anticancer agent E7070 on cell cycle progression in
human non-small cell lung cancer cells
AUTHOR(S): Fukuoka, Kazuya; Usuda, Jitsuo; Iwamoto, Yasuo;
Fukumoto, Hisao; Nakamura, Takashi; Yoneda, Takahiro;
Narita, Nobuhiro; Saijo, Nagahiro; Nishio, Kazuto
CORPORATE SOURCE: Pharmacology Division, National Cancer Center Research
Institute, Tokyo, Japan
SOURCE: Investigational New Drugs (2001), 19(3), 219-227
CODEN: INNDDK; ISSN: 0167-6997

PUBLISHER: Kluwer Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 12:44:18 ON 28 SEP 2006)

FILE 'CAPLUS' ENTERED AT 12:44:27 ON 28 SEP 2006

L1 1 S US 20040146955/PN
SEL RN

FILE 'REGISTRY' ENTERED AT 12:44:43 ON 28 SEP 2006

L2 108 S E1-E108

FILE 'CAPLUS' ENTERED AT 12:44:58 ON 28 SEP 2006

L3 22388 S L2
L4 1169 S L2/THU
L5 733490 S CANCER? OR TUMOR? OR NEOPLAS?
L6 67 S L4 (L) L5
L7 18 S L6 NOT PY>2002
L8 5 S L7 AND SULFONAM?

=> d 17 ibib abs kwic 8, 9, 16

L7 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:455364 CAPLUS

DOCUMENT NUMBER: 133:38216

TITLE: Preparation of sulfanilamide derivative for diagnosis
and treatment of tumor

INVENTOR(S): Tan, Lisong; Li, Libin; Su, Bo

PATENT ASSIGNEE(S): Shanghai No.1 Pulmonary Department Hospital, Peop.
Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 24 pp.
CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1214264	A	19990421	CN 1997-106657	19971015
PRIORITY APPLN. INFO.:			CN 1997-106657	19971015
AB	The sulfanilamide derivative R1-1,4-phenylene-SO2-N(R2)-L-R3 (R1 = NH2, CH3, or CH3CONH, etc.; R2 = pyrimidinyl, pyrazinyl, or other heterocycle; L = polyglycol, methyleneformylhexanediamine, or methylenecarbonylaminohexanoic acid, etc.; and R3 = anti-tumor drug, or complexant for 111In, 99mTc, 188Re, 186Re, 90Y, or 67Cu, etc.) is used for diagnosis and treatment of tumor. The sulfanilamide intermediate (I) (N-acetylsulfadiazine-PEG-isopropanol-butanediamine) is prepared by dissolving sulfadiazine in NaOH solution, regulating pH to 10-11, precipitating with ethanol, polymerizing with epoxyethane at 85° for 3-5 d, terminating with methanol to obtain N-acetylsulfadiazine-PEG, acetylating with acetic anhydride in NaHCO3 buffer solution (pH 9.0-10.0), allowing to react with chloromethyloxirane at 50° for 3 h, and substituting with butanediamine in the presence of DCCI. The sulfanilamide intermediate (II) (N-acetylsulfadiazine-methylenecarboxylhexanediamine) is prepared by acetylating sulfadiazine with acetic anhydride for 30 min, dissolving in NaOH solution, condensation with iodoacetic acid at 55° and pH 10-11 for 5 h, substituting with hexanediamine in the presence of DCCI and in THF at 4° for 2, and extracting with butanol. The sulfanilamide derivative is prepared by dissolving (I)			

in chloroform, condensation with cyclic DTPA for 24 h, precipitating with EtOAc, and recrystg. with chloroform or EtOAc. The sulfanilamide derivative-drug composite is prepared by condensation of the sulfanilamide derivative with activated drug in NaHCO₃ buffer solution (pH 9.0) for 30 min, and separating with

Sephadex G10 or LH20 column chromatog. Sulfadiazine may be replaced by sulfapyrazine. The activated drug is selected from carboxy-activated methotrexate, pentanedioic acid-activated mitomycin C, and pentanedioic acid-activated adriamycin.

IT 63-74-1D, Sulfanilamide, antitumor derivs. 10098-91-6D, 90Y, sulfanilamide complex, biological studies 14133-76-7D, Technetium, isotope of mass 99, sulfanilamide complex, biological studies 14378-26-8D, 188Re, sulfanilamide complex, biological studies 14998-63-1D, 186Re, sulfanilamide complex, biological studies 15750-15-9D, 111In, sulfanilamide complex, biological studies 15757-86-5D, 67Cu, sulfanilamide complex, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(preparation of sulfanilamide derivative for diagnosis and treatment of tumor)

L7 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:176258 CAPLUS

DOCUMENT NUMBER: 132:303120

TITLE: Carbonic anhydrase inhibitor suppresses invasion of renal cancer cells in vitro

AUTHOR(S): Parkkila, Seppo; Rajaniemi, Hannu; Parkkila, Anna-Kaisa; Kivela, Jyrki; Waheed, Abdul; Pastorekova, Silvia; Pastorek, Jaromir; Sly, William S.

CORPORATE SOURCE: Departments of Anatomy and Cell Biology, Clinical Chemistry, 90014 University of Oulu, Finland

SOURCE: Proceedings of the National Academy of Sciences of the United States of America (2000), 97(5), 2220-2224
CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER: National Academy of Sciences

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Acidification of the extracellular milieu of malignant tumors is reported to increase the invasive behavior of cancer cells. In normal tissues, production of acid is catalyzed by carbonic anhydrases (CAs), some of which are known to be overexpressed in certain cancers. To investigate the functional role of CA activity in such cancer cells, the authors analyzed the effect of acetazolamide, a potent CA inhibitor, on the invasive capacity of four renal carcinoma cell lines (Caki-1, Caki-2, ACHN, and A-498). The authors found that 10 μ M acetazolamide inhibited the relative invasion rate of these cell lines between 18-74%. The Caki-2 and ACHN cell lines displayed the highest responsiveness, and their responses clearly depended on the acetazolamide concentration in the culture medium. Immunocytochem. and Western blotting results identified the presence of CA isoenzyme II in the cytoplasm of all four cell lines and CA XII on the plasma membrane in three of four cell lines. Because acetazolamide alone reduced invasiveness of these cancer cells in vitro, the authors conclude that the CAs overexpressed in these renal cancer cells contribute to invasiveness, at least in vitro, and suggest that CA inhibitors may also reduce invasiveness in other tumors that overexpress one or more CAs.

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 59-66-5, Acetazolamide

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(role of carbonic anhydrase in invasion of renal cancer cells in vitro and possible therapeutic role of carbonic anhydrase inhibitor

acetazolamide)

L7 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:537618 CAPLUS
DOCUMENT NUMBER: 127:130994
TITLE: Use of carbonic anhydrase inhibitors to prepare a drug
for cancer therapy
INVENTOR(S): Lang, Hans Jochen; Gericke, Dietmar
PATENT ASSIGNEE(S): Hoechst A.-G., Germany; Lang, Hans Jochen; Gericke,
Dietmar
SOURCE: PCT Int. Appl., 16 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9725039	A1	19970717	WO 1996-EP5793	19961220
W:	AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN			
RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
DE 19600721	A1	19970717	DE 1996-19600721	19960112
AU 9713046	A1	19970801	AU 1997-13046	19961220
PRIORITY APPLN. INFO.:			DE 1996-19600721	A 19960112
			WO 1996-EP5793	W 19961220
AB	Carbonic anhydrase inhibitors such as acetazolamide are useful, alone or in association with chemotherapeutic agents, phys. treatments such as radiation therapy, or immunomodulators, for treatment of cancer (no data).			
IT	59-66-5, Acetazolamide RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (use of carbonic anhydrase inhibitors for cancer therapy)			

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 (59-66-5/RN)

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L10 1 L9 AND L2

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SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

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APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented,
with text labels.

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HELP FORMATS -- To see detailed descriptions of the predefined formats.
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-2.25

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FILE 'CAPLUS' ENTERED AT 12:44:27 ON 28 SEP 2006
L1 1 S US 20040146955/PN
SEL RN

FILE 'REGISTRY' ENTERED AT 12:44:43 ON 28 SEP 2006
L2 108 S E1-E108

FILE 'CAPLUS' ENTERED AT 12:44:58 ON 28 SEP 2006
L3 22388 S L2
L4 1169 S L2/THU
L5 733490 S CANCER? OR TUMOR? OR NEOPLAS?
L6 67 S L4 (L) L5
L7 18 S L6 NOT PY>2002
L8 5 S L7 AND SULFONAM?

FILE 'REGISTRY' ENTERED AT 12:50:27 ON 28 SEP 2006
L9 1 S 59-66-5

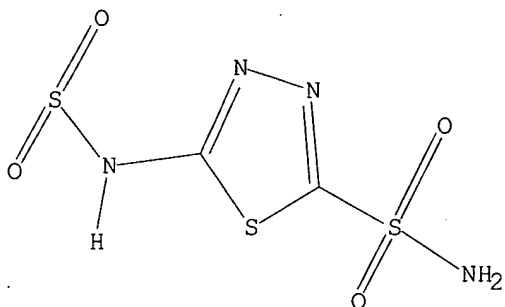
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1 S L9 AND L2

FILE 'CAPLUS' ENTERED AT 12:51:02 ON 28 SEP 2006

=> d 17 hitstr 1-18

L7 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 165668-41-7, Indisulam
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(indisulam for potential treatment of cancer)
RN 165668-41-7 CAPLUS
CN 1,4-Benzenedisulfonamide, N-(3-chloro-1H-indol-7-yl)- (9CI) (CA INDEX NAME)



L7 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 165668-41-7, E7070
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(E7070, a novel synthetic sulfonamide targeting the cell cycle progression for treatment of cancer)
RN 165668-41-7 CAPLUS
CN 1,4-Benzenedisulfonamide, N-(3-chloro-1H-indol-7-yl)- (9CI) (CA INDEX NAME)

/ Structure 2 in file .gra /

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 165668-41-7, E7070
RL: ADV (Adverse effect, including toxicity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(E7070 excretion and pharmacokinetics in cancer patients)
RN 165668-41-7 CAPLUS
CN 1,4-Benzenedisulfonamide, N-(3-chloro-1H-indol-7-yl)- (9CI) (CA INDEX NAME)

/ Structure 3 in file .gra /

L7 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 165668-41-7, E7070
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmacokinetic study of E7070 infusion, novel chloroindolyl sulfonamide cell-cycle inhibitor, in advanced cancer)

patients)
RN 165668-41-7 CAPLUS
CN 1,4-Benzenedisulfonamide, N-(3-chloro-1H-indol-7-yl)- (9CI) (CA INDEX NAME)

/ Structure 4 in file .gra /

L7 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 59-66-5, Acetazolamide
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(acetazolamide suppresses tumor metastasis and related protein expression in mice bearing Lewis lung carcinoma)
RN 59-66-5 CAPLUS
CN Acetamide, N-[5-(aminosulfonyl)-1,3,4-thiadiazol-2-yl]- (9CI) (CA INDEX NAME)

/ Structure 5 in file .gra /

L7 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 59-66-5, Acetazolamide
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(brain tumor chemotherapy using nasal delivery of drug to cerebrospinal fluid: effect of excipients)
RN 59-66-5 CAPLUS
CN Acetamide, N-[5-(aminosulfonyl)-1,3,4-thiadiazol-2-yl]- (9CI) (CA INDEX NAME)

/ Structure 6 in file .gra /

L7 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 165668-41-7, E7070
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(mechanisms of action of novel sulfonamide anticancer agent E7070 on cell cycle progression in human non-small cell lung cancer cells)
RN 165668-41-7 CAPLUS
CN 1,4-Benzenedisulfonamide, N-(3-chloro-1H-indol-7-yl)- (9CI) (CA INDEX NAME)

/ Structure 7 in file .gra /

L7 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 63-74-1D, Sulfanilamide, antitumor derivs.
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of sulfanilamide derivative for diagnosis and treatment of tumor)
RN 63-74-1 CAPLUS
CN Benzenesulfonamide, 4-amino- (9CI) (CA INDEX NAME)

/ Structure 8 in file .gra /

L7 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 59-66-5, Acetazolamide
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(role of carbonic anhydrase in invasion of renal cancer cells in vitro and possible therapeutic role of carbonic anhydrase inhibitor acetazolamide)
RN 59-66-5 CAPLUS
CN Acetamide, N-[5-(aminosulfonyl)-1,3,4-thiadiazol-2-yl]- (9CI) (CA INDEX NAME)

/ Structure 9 in file .gra /

L7 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 59-66-5
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(transnasal delivery of anticancer drugs to brain tumor)
RN 59-66-5 CAPLUS
CN Acetamide, N-[5-(aminosulfonyl)-1,3,4-thiadiazol-2-yl]- (9CI) (CA INDEX NAME)

/ Structure 10 in file .gra /

L7 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 59-66-5, Acetazolamide
RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Chinese herbs nephropathy-associated slimming regimen induces tumors in the forestomach but no interstitial nephropathy in rats)
RN 59-66-5 CAPLUS
CN Acetamide, N-[5-(aminosulfonyl)-1,3,4-thiadiazol-2-yl]- (9CI) (CA INDEX NAME)

/ Structure 11 in file .gra /

L7 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 9001-03-0
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(II; carbonic anhydrase II as a marker of malignant features for colorectal cancer)
RN 9001-03-0 CAPLUS
CN Dehydratase, carbonate (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L7 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 9001-03-0, Carbonic anhydrase
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(II; rapid method of cancer diagnosis by measuring activation of carbonic anhydrase II by blood serum tumor markers)
RN 9001-03-0 CAPLUS
CN Dehydratase, carbonate (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L7 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 9001-03-0, Carbonic anhydrase
RL: BOC (Biological occurrence); BSU (Biological study, unclassified);
THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence);
USES (Uses)
(isoenzyme IX; colorectal tumors expression of transmembrane
carbonic anhydrase, MN/CA IX, with potential value as marker of cell
proliferation in human)
RN 9001-03-0 CAPLUS
CN Dehydratase, carbonate (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L7 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 9001-03-0, Carbonate anhydrase
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical
study); BIOL (Biological study); USES (Uses)
(fecal; immunoassay of carbonic anhydrase for screening colon
cancer)
RN 9001-03-0 CAPLUS
CN Dehydratase, carbonate (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L7 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 59-66-5, Acetazolamide
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological
study); USES (Uses)
(use of carbonic anhydrase inhibitors for cancer therapy)
RN 59-66-5 CAPLUS
CN Acetamide, N-[5-(aminosulfonyl)-1,3,4-thiadiazol-2-yl]- (9CI) (CA INDEX
NAME)

/ Structure 12 in file .gra /

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 9001-03-0, Carbonic anhydrase
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(as marker for non-small cell lung cancer; marker antigen for
non-small cell lung cancer and cDNA encoding it and their
uses)
RN 9001-03-0 CAPLUS
CN Dehydratase, carbonate (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L7 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
IT 654-62-6
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological
study); USES (Uses)
(neoplasm inhibition by)
RN 654-62-6 CAPLUS
CN 1,3-Benzenedisulfonamide, 4-amino-6-(trifluoromethyl)- (9CI) (CA INDEX
NAME)

/ Structure 13 in file .gra /

=> d 17 ibib abs hitstr 8

L7 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:455364 CAPLUS

DOCUMENT NUMBER: 133:38216

TITLE: Preparation of sulfanilamide derivative for diagnosis and treatment of tumor

INVENTOR(S): Tan, Lisong; Li, Libin; Su, Bo

PATENT ASSIGNEE(S): Shanghai No.1 Pulmonary Department Hospital, Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 24 pp. CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
CN 1214264	A	19990421	CN 1997-106657	19971015
PRIORITY APPLN. INFO.:			CN 1997-106657	19971015
AB	The sulfanilamide derivative R1-1,4-phenylene-SO ₂ -N(R ₂)-L-R ₃ (R ₁ = NH ₂ , CH ₃ , or CH ₃ CONH, etc.; R ₂ = pyrimidinyl, pyrazinyl, or other heterocycle; L = polyglycol, methyleneformylhexanediamine, or methylenecarbonylaminohexanoic acid, etc.; and R ₃ = anti-tumor drug, or complexant for ¹¹¹ In, ^{99m} Tc, ¹⁸⁸ Re, ¹⁸⁶ Re, ⁹⁰ Y, or ⁶⁷ Cu, etc.) is used for diagnosis and treatment of tumor. The sulfanilamide intermediate (I) (N-acetylsulfadiazine-PEG-isopropanol-butanediamine) is prepared by dissolving sulfadiazine in NaOH solution, regulating pH to 10-11, precipitating with ethanol, polymerizing with epoxyethane at 85° for 3-5 d, terminating with methanol to obtain N-acetylsulfadiazine-PEG, acetylating with acetic anhydride in NaHCO ₃ buffer solution (pH 9.0-10.0), allowing to react with chloromethyloxirane at 50° for 3 h, and substituting with butanediamine in the presence of DCCI. The sulfanilamide intermediate (II) (N-acetylsulfadiazine-methylenecarboxylhexanediamine) is prepared by acetylating sulfadiazine with acetic anhydride for 30 min, dissolving in NaOH solution, condensation with iodoacetic acid at 55° and pH 10-11 for 5 h, substituting with hexanediamine in the presence of DCCI and in THF at 4° for 2, and extracting with butanol. The sulfanilamide derivative is prepared by dissolving (I) in chloroform, condensation with cyclic DTPA for 24 h, precipitating with EtOAc, and recrystg. with chloroform or EtOAc. The sulfanilamide derivative-drug composite is prepared by condensation of the sulfanilamide derivative with activated drug in NaHCO ₃ buffer solution (pH 9.0) for 30 min, and separating with Sephadex G10 or LH20 column chromatog. Sulfadiazine may be replaced by sulfapyrazine. The activated drug is selected from carboxy-activated methotrexate, pentanedioic acid-activated mitomycin C, and pentanedioic acid-activated adriamycin.			
IT	63-74-1D, Sulfanilamide, antitumor derivs. RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preparation of sulfanilamide derivative for diagnosis and treatment of tumor)			
RN	63-74-1 CAPLUS			
CN	Benzenesulfonamide, 4-amino- (9CI) (CA INDEX NAME)			

/ Structure 14 in file .gra /

=>

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=>

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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.75	-3.00

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS	5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS	6	NOV 10	CA/CAPLUS F-Term thesaurus enhanced
NEWS	7	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS	8	NOV 20	CA/CAPLUS to MARPAT accession number crossover limit increased to 50,000
NEWS	9	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS	10	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS	11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS	12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS	13	DEC 18	CA/CAPLUS pre-1967 chemical substance index entries enhanced with preparation role
NEWS	14	DEC 18	CA/CAPLUS patent kind codes updated
NEWS	15	DEC 18	MARPAT to CA/CAPLUS accession number crossover limit increased to 50,000
NEWS	16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS	17	DEC 27	CA/CAPLUS enhanced with more pre-1907 records
NEWS	18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS	19	JAN 16	CA/CAPLUS Company Name Thesaurus enhanced and reloaded

NEWS 20 JAN 16 IPC version 2007.01 thesaurus available on STN
NEWS 21 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 22 JAN 22 CA/Caplus updated with revised CAS roles
NEWS 23 JAN 22 CA/Caplus enhanced with patent applications from India
NEWS 24 JAN 29 PHAR reloaded with new search and display fields
NEWS 25 JAN 29 CAS Registry Number crossover limit increased to 300,000 in multiple databases

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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FULL ESTIMATED COST	0.21	0.21

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=> s acetazolamide/cn

L1 1 ACETAZOLAMIDE/CN

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	ENTRY	SESSION
FULL ESTIMATED COST	5.40	5.61

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```
=> s 11/dgn
      2763 L1
      73491 DGN/RL
L2      11 L1/DGN
          (L1 (L) DGN/RL)

=> s 11
L3      2763 L1

=> s tumor? or cancer? or neoplas?
      456608 TUMOR?
      319712 CANCER?
      479213 NEOPLAS?
L4      756547 TUMOR? OR CANCER? OR NEOPLAS?

=> s 13 (L) 14
L5      37 L3 (L) L4

=> s 15 and 12
L6      0 L5 AND L2

=> s sulfonamid?
L7      34242 SULFONAMID?

=> s 17 (L) 14
L8      672 L7 (L) L4

=> s diagnos?
L9      275619 DIAGNOS?

=> s 19 and 18
L10     22 L9 AND L8

=> s carbonic anhydrase
      44312 CARBONIC
          1 CARBONICS
      44313 CARBONIC
          (CARBONIC OR CARBONICS)
```

12249 ANHYDRASE
 713 ANHYDRASES
 12291 ANHYDRASE
 (ANHYDRASE OR ANHYDRASES)
 L11 12141 CARBONIC ANHYDRASE
 (CARBONIC(W) ANHYDRASE)

=> s l11 and l2
 L12 0 L11 AND L2

=> s l12 and l3
 L13 0 L12 AND L3

=> s l11 and l3
 L14 1069 L11 AND L3

=> s l14 and l4
 L15 45 L14 AND L4

=> s l14 and l5
 L16 13 L14 AND L5

=> s l16 not py>2002
 4850131 PY>2002
 L17 4 L16 NOT PY>2002

=> d ibib 1-4

L17 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:176258 CAPLUS
 DOCUMENT NUMBER: 132:303120
 TITLE: Carbonic anhydrase inhibitor
 suppresses invasion of renal cancer cells in vitro
 AUTHOR(S): Parkkila, Seppo; Rajaniemi, Hannu; Parkkila,
 Anna-Kaisa; Kivela, Jyrki; Waheed, Abdul; Pastorekova,
 Silvia; Pastorek, Jaromir; Sly, William S.
 CORPORATE SOURCE: Departments of Anatomy and Cell Biology, Clinical
 Chemistry, 90014 University of Oulu, Finland
 SOURCE: Proceedings of the National Academy of Sciences of the
 United States of America (2000), 97(5), 2220-2224
 CODEN: PNASA6; ISSN: 0027-8424
 PUBLISHER: National Academy of Sciences
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:537618 CAPLUS
 DOCUMENT NUMBER: 127:130994
 TITLE: Use of carbonic anhydrase
 inhibitors to prepare a drug for cancer therapy
 INVENTOR(S): Lang, Hans Jochen; Gericke, Dietmar
 PATENT ASSIGNEE(S): Hoechst A.-G., Germany; Lang, Hans Jochen; Gericke,
 Dietmar
 SOURCE: PCT Int. Appl., 16 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9725039	A1	19970717	WO 1996-EP5793	19961220

W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU,
 IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN,
 MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN
 RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
 IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,
 MR, NE, SN, TD, TG

DE 19600721 A1 19970717 DE 1996-19600721 19960112
 AU 9713046 A 19970801 AU 1997-13046 19961220
 PRIORITY APPLN. INFO.: DE 1996-19600721 A 19960112
 WO 1996-EP5793 W 19961220

L17 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1991:178180 CAPLUS
 DOCUMENT NUMBER: 114:178180
 TITLE: Treatment of humoral hypercalcemia of malignancy in
 rats with inhibitors of carbonic
 anhydrase
 AUTHOR(S): Brown, Gregory M.; Morris, Carol A.; Mitnick, Mary
 Ann; Insogna, Karl L.
 CORPORATE SOURCE: Sch. Med., Yale Univ., New Haven, CT, 06510, USA
 SOURCE: Journal of Bone and Mineral Research (1990), 5(10),
 1037-41
 CODEN: JBMREJ; ISSN: 0884-0431
 DOCUMENT TYPE: Journal
 LANGUAGE: English

L17 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1986:10594 CAPLUS
 DOCUMENT NUMBER: 104:10594
 TITLE: Antitumor pharmaceuticals containing
 1-phthalidyl-5-fluorouracil and sulfonamides
 PATENT ASSIGNEE(S): Shionogi and Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60126219	A	19850705	JP 1983-233269	19831209
PRIORITY APPLN. INFO.:			JP 1983-233269	19831209

=> d kwic 2-4

L17 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Use of carbonic anhydrase inhibitors to prepare a drug
 for cancer therapy
 AB Carbonic anhydrase inhibitors such as acetazolamide
 are useful, alone or in association with chemotherapeutic agents, phys.
 treatments such as radiation therapy, or. . .
 ST carbonic anhydrase inhibitor cancer therapy
 IT Antitumor agents
 (use of carbonic anhydrase inhibitors for cancer
 therapy)
 IT 9001-03-0, Carbonic anhydrase
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (inhibitors; use of carbonic anhydrase inhibitors
 for cancer therapy)
 IT 59-66-5, Acetazolamide
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
 (Uses)

(use of carbonic anhydrase inhibitors for cancer therapy)

L17 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

TI Treatment of humoral hypercalcemia of malignancy in rats with inhibitors of carbonic anhydrase

AB The enzyme carbonic anhydrase has been suggested as a critical participant in osteoclast-mediated bone resorption. In humoral hypercalcemia of malignancy (HHM), intense osteoclastic bone resorption is principally responsible for the observed hypercalcemia. The effect of the carbonic anhydrase inhibitor acetazolamide on the hypercalcemia induced by the H500 Leydig cell tumor in Fisher rats, a well-described model of HHM, . . . in serum phosphorus, urine calcium, urine phosphorus, or nephrogenous cAMP excretion between the two groups. Acetazolamide and HTs [5-(3-hydroxybenzoyl)-2-thiophenesulfonamide], another carbonic anhydrase inhibitor, both significantly inhibited in vitro bone resorption induced by 5 + 10-9 M 36Tyr(1-36)-PTHrP-amide (PTHrP, parathyroid hormone-related protein). Acetazolamide. . .

ST carbonic anhydrase inhibitor hypercalcemia malignancy

IT Osteoclast

(bone resorption by, carbonic anhydrase inhibitors effect on, in neoplasm)

IT Neoplasm

(hypercalcemia in, carbonic anhydrase inhibitors treatment of, bone resorption response in)

IT Resorption

(of bone, carbonic anhydrase inhibitors effect on, in neoplasm)

IT Bone, metabolism

(resorption of, carbonic anhydrase inhibitors effect on)

IT 59-66-5, Acetazolamide 114891-23-5, 5-(3-Hydroxybenzoyl)-2-thiophenesulfonamide

RL: BIOL (Biological study)

(hypercalcemia treatment with, in neoplasm, bone resorption response in)

IT 9001-03-0, Carbonic anhydrase

RL: BIOL (Biological study)

(inhibitors of, hypercalcemia treatment with, in neoplasm, bone resorption response in)

IT 7440-70-2, Calcium, biological studies

RL: BIOL (Biological study)

(metabolic disorders, hypercalcemia, treatment of, with carbonic anhydrase inhibitors, in neoplasm)

L17 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

AB Antitumor formulations consist of 1-phthalidyl-5-fluoromuracil (I)

[81820-68-0] and carbonic anhydrase-inhibiting

sulfonamides (R1SO2NR2R3, where R1 = substituted thienyl, thiazolyl, thiadiazolyl, Ph; R2, R3 = H, substituted alkyl, aryl, acyl and Bz). . .

I. In Yoshida sarcoma-bearing mice, combined oral administration of I (400 mg/kg/day) and sulfanilamide [63-74-1] (200 mg/kg/day) decreased the relative tumor size from 1.00 in controls to 0.18 compared to only 0.41 when I is administered alone. Thus, tablets were prepared containing I 100, acetazolamide [59-66-5] 10, lactose 200, wheat starch 01, hydroxypropylcellulose 4 and Mg stearate 2 mg.

IT 59-66-5 63-74-1 72-14-0 133-67-5 515-64-0 723-46-6 4563-84-2

RL: BIOL (Biological study)

(antitumor pharmaceuticals containing phthalidylfluorouracil and)

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	32.07	37.68
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.34	-2.34

STN INTERNATIONAL LOGOFF AT 17:06:42 ON 31 JAN 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS 4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS 5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS 6	NOV 10	CA/CAPLUS F-Term thesaurus enhanced
NEWS 7	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS 8	NOV 20	CA/CAPLUS to MARPAT accession number crossover limit increased to 50,000
NEWS 9	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS 10	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS 11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS 12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS 13	DEC 18	CA/CAPLUS pre-1967 chemical substance index entries enhanced with preparation role
NEWS 14	DEC 18	CA/CAPLUS patent kind codes updated
NEWS 15	DEC 18	MARPAT to CA/CAPLUS accession number crossover limit increased to 50,000
NEWS 16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 17	DEC 27	CA/CAPLUS enhanced with more pre-1907 records
NEWS 18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 19	JAN 16	CA/CAPLUS Company Name Thesaurus enhanced and reloaded
NEWS 20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 22	JAN 22	CA/CAPLUS updated with revised CAS roles

NEWS 23 JAN 22 CA/CAPlus enhanced with patent applications from India
NEWS 24 JAN 29 PHAR reloaded with new search and display fields
NEWS 25 JAN 29 CAS Registry Number crossover limit increased to 300,000 in
multiple databases

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8
NEWS X25 X.25 communication option no longer available

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:45:08 ON 01 FEB 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:45:17 ON 01 FEB 2007
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STRUCTURE FILE UPDATES: 31 JAN 2007 HIGHEST RN 918932-71-5
DICTIONARY FILE UPDATES: 31 JAN 2007 HIGHEST RN 918932-71-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

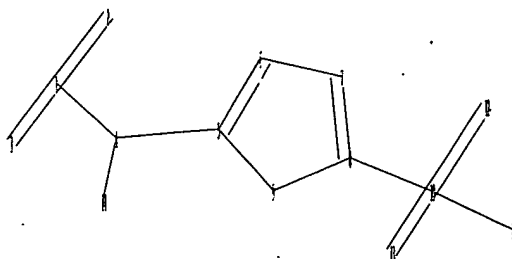
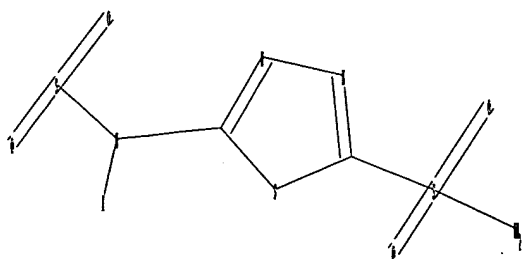
Please note that search-term pricing does apply when
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experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10723795_2.str



```

chain nodes :
1  2  3  4 10 11 12 13 14
ring nodes :
5  6  7  8  9
chain bonds :
1-4 1-2 1-3 4-5 4-14 8-10 10-11 10-12 10-13
ring bonds :
5-6 5-9 6-7 7-8 8-9
exact/norm bonds :
1-4 1-2 1-3 4-5 5-6 5-9 6-7 7-8 8-9 8-10 10-11 10-12 10-13
exact bonds :
4-14

```

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Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS

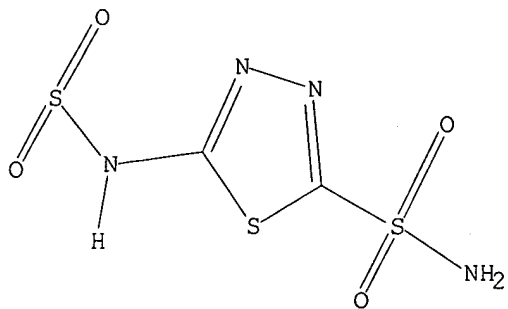
```

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 14:45:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 11 TO ITERATE

100.0% PROCESSED 11 ITERATIONS
SEARCH TIME: 00.00.01

8 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 22 TO 418

PROJECTED ANSWERS:

8 TO

329

L2 8 SEA SSS SAM L1

=> s 11 full

FULL SEARCH INITIATED 14:45:46 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 351 TO ITERATE

100.0% PROCESSED 351 ITERATIONS

218 ANSWERS

SEARCH TIME: 00.00.01

L3 218 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

172.31

FILE 'CAPLUS' ENTERED AT 14:45:53 ON 01 FEB 2007

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FILE LAST UPDATED: 31 Jan 2007 (20070131/ED)

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=> s 13/dgn

199 L3

73556 DGN/RL

L4 0 L3/DGN

(L3 (L) DGN/RL)

=> s 13

L5 199 L3

=> s tumor? or neoplas? or cancer?

456707 TUMOR?

479316 NEOPLAS?

319785 CANCER?

L6 756702 TUMOR? OR NEOPLAS? OR CANCER?

=> s 16 and 15

L7 26 L6 AND L5

=> s 17 not py>2002

4853307 PY>2002

L8 4 L7 NOT PY>2002

=> d ibib 1-4

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:322273 CAPLUS
DOCUMENT NUMBER: 135:55472
TITLE: Carbonic anhydrase inhibitors: 88. Sulfonamides as antitumor agents?
AUTHOR(S): Supuran, Claudiu T.; Briganti, Fabrizio; Tilli, Silvia; Chegwidan, W. Richard; Scozzafava, Andrea
CORPORATE SOURCE: Laboratorio di Chimica Inorganica e Bioinorganica, Universita degli Studi, Laboratorio di Chimica Inorganica e Bioinorganica, Florence, I-50121, Italy
SOURCE: Bioorganic & Medicinal Chemistry (2001), 9(3), 703-714
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:55472
REFERENCE COUNT: 81 THERE ARE 81 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:696271 CAPLUS
DOCUMENT NUMBER: 133:344324
TITLE: Carbonic anhydrase inhibitors - Part 94. 1,3,4-Thiadiazole-2-sulfonamide derivatives as antitumor agents?
AUTHOR(S): Supuran, Claudiu T.; Scozzafava, Andrea
CORPORATE SOURCE: Universita degli Studi, Laboratorio di Chimica Inorganica e Bioinorganica, Florence, I-50121, Italy
SOURCE: European Journal of Medicinal Chemistry (2000), 35(9), 867-874
CODEN: EJMCA5; ISSN: 0223-5234
PUBLISHER: Editions Scientifiques et Medicales Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:379680 CAPLUS
DOCUMENT NUMBER: 133:171930
TITLE: Carbonic anhydrase inhibitors: synthesis of N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamides and their interaction with isozymes I, II and IV
AUTHOR(S): Scozzafava, Andrea; Supuran, Claudiu T.
CORPORATE SOURCE: Universita degli Studi, Laboratorio di Chimica Inorganica e Bioinorganica, Florence, I-50121, Italy
SOURCE: Bioorganic & Medicinal Chemistry Letters (2000), 10(10), 1117-1120
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1964:457068 CAPLUS
DOCUMENT NUMBER: 61:57068
ORIGINAL REFERENCE NO.: 61:9923b-e
TITLE: The anticonvulsive action of acetazolamide, its derivatives, and some other sulfonamides
AUTHOR(S): Gores, E.; Hilgetag, G.; Jung, F.
CORPORATE SOURCE: Humboldt Univ., Berlin

SOURCE: Acta Physiologica Academiae Scientiarum Hungaricae
(1961), 19, 95-102
From: CZ 1962(6), 2078.
CODEN: APACAB; ISSN: 0001-6756
DOCUMENT TYPE: Journal
LANGUAGE: German

=> d ibib 1-4 abs kwic

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:322273 CAPLUS

DOCUMENT NUMBER: 135:55472

TITLE: Carbonic anhydrase inhibitors: 88. Sulfonamides as antitumor agents?

AUTHOR(S): Supuran, Claudiu T.; Briganti, Fabrizio; Tilli, Silvia; Chegwidan, W. Richard; Scozzafava, Andrea

CORPORATE SOURCE: Laboratorio di Chimica Inorganica e Bioinorganica, Universita degli Studi, Laboratorio di Chimica Inorganica e Bioinorganica, Florence, I-50121, Italy

SOURCE: Bioorganic & Medicinal Chemistry (2001), 9(3), 703-714
CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:55472

AB Novel sulfonamide inhibitors of the zinc enzyme carbonic anhydrase (CA, EC 4.2.1.1) were prepared by reaction of aromatic or heterocyclic sulfonamides containing amino, imino, or hydrazino moieties with N,N-dialkyldithiocarbamates in the presence of oxidizing agents (sodium hypochlorite or iodine). The N,N-dialkylthiocarbamylsulfenamido-sulfonamides synthesized in this way behaved as strong inhibitors of human CA I and CA II (hCA I and hCA II) and bovine CA IV (bCA IV). For the most active compds., inhibition consts. ranged from 10⁻⁸ to 10⁻⁹ M (for isoenzymes II and IV). Three of the derivs. belonging to this new class of CA inhibitors were also tested as inhibitors of tumor cell growth in vitro. These sulfonamides showed potent inhibition of growth against several leukemia, non-small cell lung, ovarian, melanoma, colon, CNS, renal, prostate and breast cancer cell lines. With several cell lines, GI50 values of 10-75 nM were observed. The mechanism of antitumor action with the new sulfonamides reported here remains obscure, but may involve inhibition of CA isoenzymes which predominate in tumor cell membranes (CA IX and CA XII), perhaps causing acidification of the intercellular milieu, or inhibition of intracellular isoenzymes which provide bicarbonate for the synthesis of nucleotides and other essential cell components (CA II and CA V). Optimization of these derivs. from the SAR point of view, might lead to the development of effective novel types of anticancer agents.

REFERENCE COUNT: 81 THERE ARE 81 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Novel sulfonamide inhibitors of the zinc enzyme carbonic anhydrase (CA, EC 4.2.1.1) were prepared by reaction of aromatic or heterocyclic sulfonamides containing amino, imino, or hydrazino moieties with N,N-dialkyldithiocarbamates in the presence of oxidizing agents (sodium hypochlorite or iodine). The N,N-dialkylthiocarbamylsulfenamido-sulfonamides synthesized in this way behaved as strong inhibitors of human CA I and CA II (hCA I and hCA II) and bovine CA IV (bCA IV). For the most active compds., inhibition consts. ranged from 10⁻⁸ to 10⁻⁹ M (for isoenzymes II and IV). Three of the derivs. belonging to this new class of CA inhibitors were also tested as inhibitors of tumor cell growth in vitro. These sulfonamides showed potent inhibition of growth against several leukemia, non-small cell lung, ovarian, melanoma, colon, CNS, renal, prostate and breast cancer cell lines. With several cell lines, GI50 values of 10-75 nM were observed. The mechanism of antitumor action with the new sulfonamides reported here remains obscure, but may

involve inhibition of CA isoenzymes which predominate in tumor cell membranes (CA IX and CA XII), perhaps causing acidification of the intercellular milieu, or inhibition of intracellular isoenzymes which provide bicarbonate for the synthesis of nucleotides and other essential cell components (CA II and CA V). Optimization of these derivs. from the SAR point of view, might lead to the development of effective novel types of anticancer agents.

IT 63-74-1 98-18-0 121-30-2 138-39-6 547-52-4 654-62-6 2153-13-1
2368-84-5 3306-62-5 3523-95-3 4392-54-5 5250-72-6
14949-00-9 16840-26-9 35303-76-5 53297-68-0 53297-69-1
60154-06-5 86029-46-1 88615-09-2 120280-13-9 216885-22-2
217972-52-6 345970-47-0 345970-48-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)

(sulfonamide carbonic anhydrase inhibitors as antitumor agents)

IT 345970-49-2P 345970-50-5P 345970-51-6P 345970-52-7P 345970-53-8P
345970-54-9P 345970-55-0P 345970-56-1P 345970-57-2P 345970-58-3P
345970-59-4P 345970-60-7P 345970-61-8P 345970-62-9P 345970-63-0P
345970-64-1P 345970-65-2P 345970-66-3P 345970-67-4P
345970-68-5P 345970-69-6P 345970-70-9P 345970-71-0P 345970-72-1P
345970-73-2P 345970-74-3P 345970-75-4P 345970-77-6P 345970-79-8P
345970-80-1P 345970-81-2P 345970-82-3P 345970-83-4P 345970-84-5P
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345970-89-0P 345970-90-3P 345970-91-4P 345970-92-5P
345970-93-6P 345970-94-7P 345970-95-8P 345970-96-9P 345970-97-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(sulfonamide carbonic anhydrase inhibitors as antitumor agents)

IT 90110-89-7 306314-22-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(sulfonamide carbonic anhydrase inhibitors as antitumor agents)

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:696271 CAPLUS

DOCUMENT NUMBER: 133:344324

TITLE: Carbonic anhydrase inhibitors - Part 94.
1,3,4-Thiadiazole-2-sulfonamide derivatives as
antitumor agents?

AUTHOR(S): Supuran, Claudiu T.; Scozzafava, Andrea

CORPORATE SOURCE: Universita degli Studi, Laboratorio di Chimica
Inorganica e Bioinorganica, Florence, I-50121, Italy

SOURCE: European Journal of Medicinal Chemistry (2000), 35(9),
867-874

CODEN: EJMCA5; ISSN: 0223-5234

PUBLISHER: Editions Scientifiques et Medicales Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Potent sulfonamide inhibitors of the zinc enzyme carbonic anhydrase (CA, EC 4.2.1.1), derivs. of 1,3,4-thiadiazole-2-sulfonamide, possessing inhibition consts. in the range of 10⁻⁸-10⁻⁹ M against isoenzymes II and IV, were shown to act as efficient in vitro tumor cell growth inhibitors with GI50 (molarity of inhibitor producing a 50% inhibition of tumor cell growth) values typically in the range of 0.1-30 μ M against several leukemia, non-small cell lung cancer, ovarian, melanoma, colon, CNS, renal, prostate and breast cancer cell lines. The mechanism of antitumor action with the new sulfonamides reported here is unknown, but it might involve either inhibition of several CA isoenzymes (such as CA IX, CA XII, CA XIV) present predominantly in tumor cell membranes, acidification of the intracellular environment as a consequence of CA inhibition, uncoupling of mitochondria and/or strong CA V inhibition, or a combination of several

such mechanisms. Such derivs. might lead to the development of effective novel types of anticancer agents/therapies.

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Potent sulfonamide inhibitors of the zinc enzyme carbonic anhydrase (CA, EC 4.2.1.1), derivs. of 1,3,4-thiadiazole-2-sulfonamide, possessing inhibition consts. in the range of 10^{-8} - 10^{-9} M against isoenzymes II and IV, were shown to act as efficient in vitro tumor cell growth inhibitors with GI50 (molarity of inhibitor producing a 50% inhibition of tumor cell growth) values typically in the range of 0.1-30 μ M against several leukemia, non-small cell lung cancer, ovarian, melanoma, colon, CNS, renal, prostate and breast cancer cell lines. The mechanism of antitumor action with the new sulfonamides reported here is unknown, but it might involve either inhibition of several CA isoenzymes (such as CA IX, CA XII, CA XIV) present predominantly in tumor cell membranes, acidification of the intracellular environment as a consequence of CA inhibition, uncoupling of mitochondria and/or strong CA V inhibition, or a combination of several such mechanisms. Such derivs. might lead to the development of effective novel types of anticancer agents/therapies.

IT 25182-53-ODP, 1,3,4-Thiadiazole-2-sulfonamide, derivs. 86029-44-9P
90110-89-7P 97919-22-7P, CQS 141430-65-1P, E 7010
144462-41-9P 165668-41-7P, E 7070 196512-72-8P 207795-80-0P
207796-05-2P 306314-22-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(carbonic anhydrase inhibitors: 1,3,4-thiadiazole-2-sulfonamide derivs. as antitumor agents)

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:379680 CAPLUS

DOCUMENT NUMBER: 133:171930

TITLE: Carbonic anhydrase inhibitors: synthesis of N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamides and their interaction with isozymes I, II and IV

AUTHOR(S): Scozzafava, Andrea; Supuran, Claudiu T.

CORPORATE SOURCE: Universita degli Studi, Laboratorio di Chimica Inorganica e Bioinorganica, Florence, I-50121, Italy
SOURCE: Bioorganic & Medicinal Chemistry Letters (2000), 10(10), 1117-1120

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Several aromatic/heterocyclic sulfonamides possessing free amino, imino, or hydrazino moieties were transformed into the corresponding N-morpholythiocarbonylsulfenyl derivs. by reaction with N-morpholyldithiocarbamate in the presence of oxidizing agents (NaClO or iodine). These compds. showed nanomolar inhibition against three CA (carbonic anhydrase) isoenzymes and interesting in vitro tumor cell growth inhibitory properties against several leukemia, non-small cell lung, ovarian, melanoma, colon, CNS, renal, prostate, and breast cancer cell lines.

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Several aromatic/heterocyclic sulfonamides possessing free amino, imino, or hydrazino moieties were transformed into the corresponding N-morpholythiocarbonylsulfenyl derivs. by reaction with N-morpholyldithiocarbamate in the presence of oxidizing agents (NaClO or iodine). These compds. showed nanomolar inhibition against three CA (carbonic anhydrase) isoenzymes and interesting in vitro tumor cell growth inhibitory properties against several leukemia, non-small cell lung, ovarian, melanoma, colon, CNS, renal, prostate, and breast

cancer cell lines.

ST morpholythiocarbonylsulfenylaminosulfonamide inhibition carbonic anhydrase isoenzyme tumor cell growth

IT Antitumor agents
(N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Antitumor agents
(central nervous system; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Nervous system
Nervous system
(central, neoplasm, inhibitors; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Intestine, neoplasm
Intestine, neoplasm
(colon, inhibitors; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Antitumor agents
(colon; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Kidney, neoplasm
Kidney, neoplasm
Ovary, neoplasm
Ovary, neoplasm
(inhibitors; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Antitumor agents
Antitumor agents
(kidney; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Antitumor agents
(leukemia; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Antitumor agents
(lung non-small-cell carcinoma; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Antitumor agents
(mammary gland; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Antitumor agents
(melanoma; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Mammary gland
Mammary gland
Prostate gland
Prostate gland
(neoplasm, inhibitors; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Lung, neoplasm
Lung, neoplasm
(non-small-cell carcinoma, inhibitors; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Enzyme kinetics.
(of inhibition; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Antitumor agents
Antitumor agents
(ovary; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT Antitumor agents
(prostate gland; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT 288584-57-6 288584-58-7 288584-59-8 288584-60-1 288584-61-2
288584-62-3 288584-63-4 288584-64-5 288584-65-6 288584-66-7
288584-67-8 288584-68-9 288584-69-0 288584-70-3 288584-71-4
288584-72-5 288584-73-6 288584-74-7 288584-75-8
288584-76-9
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT 9001-03-0, Carbonic anhydrase
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(isoenzymes; N-morpholythiocarbonylsulfenylamino aromatic/heterocyclic sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV and cancer growth inhibitory properties)

IT 63-74-1 98-18-0 121-30-2 138-39-6 547-52-4 2368-84-5 3306-62-5
3523-95-3 4392-54-5 5250-72-6 14949-00-9 16840-26-9
35303-76-5 53297-68-0 53297-69-1 60154-06-5 86029-46-1
120280-13-9 216885-22-2 217972-52-6
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(sulfonamide interaction with carbonic anhydrase isoenzymes I, II and IV)

L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1964:457068 CAPLUS

DOCUMENT NUMBER: 61:57068

ORIGINAL REFERENCE NO.: 61:9923b-e

TITLE: The anticonvulsive action of acetazolamide, its derivatives, and some other sulfonamides

AUTHOR(S): Gores, E.; Hilgetag, G.; Jung, F.

CORPORATE SOURCE: Humboldt Univ., Berlin

SOURCE: Acta Physiologica Academiae Scientiarum Hungaricae (1961), 19, 95-102

From: CZ 1962(6), 2078.

CODEN: APACAB; ISSN: 0001-6756

DOCUMENT TYPE: Journal

LANGUAGE: German

AB The following 2-acetamido- and 5-aminosulfonyl-1,3,4-thiadiazole compds. were tested for convulsion-preventive action against elec., pentamethylenetetrazole, and strychnine convulsions: 2-acetamido-1,3,4-thiadiazole, 5-[ethylaminosulfonyl]- (I); 5-(diethylaminosulfonyl)- (II);

5-(ureidosulfonyl)- (III); 5-[N2-methylureidosulfonyl]- (IV); 5-(N2-ethylureidosulfonyl)- (V); 5-(N2-butylureidosulfonyl)- (VI); and 5-(N2-phenylureidosulfonyl)-; 5-aminosulfonyl-1,3,4-thiadiazole; 2-amino-(VII); 2-acetamido-(VIII); 2-(p-chlorobenzenesulfonamido)- (IX); 2-(p-carboxybenzenesulfonamido)-; 2-(p-nitrobenzenesulfonamido)-; and 2-(2-acetamido-1,3,4-thiadiazole-5-sulfonamido)-. The following compds. were also investigated: 2,2'-succinyldiaminobis(1,3,4-thiadiazole-5-sulfonamide) (X); N,N'-hexamethylenebis[3-(2-acetamido-1,3,4-thiadiazol-5-ylsulfonyl)urea]; N',N'-octamethylenebis[3-(2-acetamido-1,3,4-thiadiazol-5-ylsulfonyl)urea]; p-acetamidobenzenesulfonamide (XI); oranil; orabet; Prontosil; Uliron C; Neo-Uliron; p-(p-chlorobenzenesulfonylamino)benzenesulfonamide; 1,4-benzenedisulfonamide; chlorothiazide; dihydrochlorothiazide; and triazurol. III, V-XI, and XIII were effective against elec. convulsions; only II was effective against pentamethylenetetrazole convulsions; and I, IV, XII, and XIII were effective against strychnine convulsions. A parallel with the diuretic action was not established.

IT 58-93-5, 2H-1,2,4-Benzothiadiazine-7-sulfonamide, 6-chloro-3,4-dihydro-, 1,1-dioxide 58-94-6, 2H-1,2,4-Benzothiadiazine-7-sulfonamide, 6-chloro-, 1,1-dioxide 64-77-7, Urea, 1-butyl-3-(p-tolylsulfonyl)- 103-12-8, Benzenesulfonamide, p-(2,4-diaminophenyl)azo]- 121-61-9, Acetanilide, 4'-sulfamoyl- 339-43-5, Urea, 1-butyl-3-sulfanilyl- 500-42-5, s-Triazine, 2-amino-4-(p-chloroanilino)- 547-52-4, Sulfanilanilide, 4'-sulfamoyl- 547-53-5, Sulfanilanilide, 4'-(methylsulfamoyl)- 10518-52-2, Urea, 1-[(5-acetamido-1,3,4-thiadiazol-2-yl)sulfonyl]-3-butyl- 13463-26-8, 1,3,4-Thiadiazole-2-sulfonamide, 5-(p-chlorobenzenesulfonamido)- 13681-31-7, 1,3,4-Thiadiazole-2-sulfonamide, 5-acetamido-N,N-diethyl- 14949-00-9, 1,3,4-Thiadiazole-2-sulfonamide, 5-amino- 16993-45-6, p-Benzenedisulfonamide 25182-53-0, 1,3,4-Thiadiazole-2-sulfonamide, 5-acetamido 84884-65-1, Urea, [(5-acetamido-1,3,4-thiadiazol-2-yl)sulfonyl]- 84884-66-2, Urea, 1-[(5-acetamido-1,3,4-thiadiazol-2-yl)sulfonyl]-3-methyl- 84884-70-8, Urea, 1-[(5-acetamido-1,3,4-thiadiazol-2-yl)sulfonyl]-3-phenyl- 89489-04-3, 1,3,4-Thiadiazole-2-sulfonamide, 5-acetamido-N-ethyl- 90110-89-7, 1,3,4-Thiadiazole-2-sulfonamide, 5-(p-nitrobenzenesulfonamido)- 90271-63-9, Urea, 1-[(5-acetamido-1,3,4-thiadiazol-2-yl)sulfonyl]-3-ethyl- 90324-21-3, Benzoic acid, p-[(5-sulfamoyl-1,3,4-thiadiazol-2-yl)sulfamoyl]- 91114-64-6, N,5'-Bi[1,3,4-thiadiazole-2-sulfonamide], 5-acetamido- 91398-32-2, Benzenesulfonanilide, 4-chloro-4'-sulfamoyl- 92187-74-1, Succinamide, N,N'-bis(5-sulfamoyl-1,3,4-thiadiazol-2-yl)- 97790-65-3, Urea, 1,1'-hexamethylenebis[3-[(5-acetamido-1,3,4-thiadiazol-2-yl)sulfonyl]- 98766-55-3, Urea, 1,1'-octamethylenebis[3-[(5-acetamido-1,3,4-thiadiazol-2-yl)sulfonyl]- (as anticonvulsant)

IT 26367-45-3, Alanine, 3-[p-[bis(2-chloroethyl)amino]phenyl]-N-formyl- (neoplasm inhibition by)

=> (positron emission tomography) or PET

(POSITRON IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> s (positron emission tomography) or PET

58520 POSITRON

12716 POSITRONS

60849 POSITRON

(POSITRON OR POSITRONS)

506316 EMISSION

93434 EMISSIONS

550703 EMISSION

(EMISSION OR EMISSIONS)

18466 TOMOGRAPHY

10 TOMOGRAPHIES

18471 TOMOGRAPHY
 (TOMOGRAPHY OR TOMOGRAPHS)
 23557 TOMOG
 31 TOMOGS
 23568 TOMOG
 (TOMOG OR TOMOGS)
 29235 TOMOGRAPHY
 (TOMOGRAPHY OR TOMOG)
 9739 POSITRON EMISSION TOMOGRAPHY
 (POSITRON (W) EMISSION (W) TOMOGRAPHY)
 67172 PET
 967 PETS
 67621 PET
 (PET OR PETS)

L9 70632 (POSITRON EMISSION TOMOGRAPHY) OR PET

=> d his

(FILE 'HOME' ENTERED AT 14:45:08 ON 01 FEB 2007)

FILE 'REGISTRY' ENTERED AT 14:45:17 ON 01 FEB 2007

L1 STRUCTURE UPLOADED
 L2 8 S L1
 L3 218 S L1 FULL

FILE 'CAPLUS' ENTERED AT 14:45:53 ON 01 FEB 2007

L4 0 S L3/DGN
 L5 199 S L3
 L6 756702 S TUMOR? OR NEOPLAS? OR CANCER?
 L7 26 S L6 AND L5
 L8 4 S L7 NOT PY>2002
 L9 70632 S (POSITRON EMISSION TOMOGRAPHY) OR PET

=> s 19 (L) 16

L10 3607 L9 (L) L6

=> s l10 not py>2002

4853307 PY>2002

L11 2179 L10 NOT PY>2002

=> d ibib abs kwic

L11 ANSWER 1 OF 2179 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:990937 CAPLUS

DOCUMENT NUMBER: 145:484479

TITLE: Protein and cDNA sequences of a 24.09-kilodalton human proteasome subunit HC5 sequence homolog and their therapeutic uses

INVENTOR(S): Mao, Yumin; Xie, Yi

PATENT ASSIGNEE(S): Shanghai Biowindow Gene Development, Inc., Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 31pp.
 CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1345865	A	20020424	CN 2000-125585	20000929
PRIORITY APPLN. INFO.:			CN 2000-125585	20000929

AB The invention provides the protein and cDNA sequences of a novel 24.09-kilodalton human protein, designated as "proteasome subunit HC5 24.09", which has sequence homol. with known proteasome subunit HC5. The

invention relates to expression of proteasome subunit HC5 sequence homolog in E. coli BL21(DE3)plySs transfected with plasmid pET-28(+). The invention also relates to preparation of antibody against proteasome subunit HC5 sequence homolog. The invention further relates to the uses of the proteasome subunit HC5 sequence homolog in treatment of proteasome subunit HC5-related diseases (such as tumor, diabetes mellitus, menstrual disorder, peptic ulcer, arrhythmia, anemia, and epilepsy).

AB The invention provides the protein and cDNA sequences of a novel 24.09-kilodalton human protein, designated as "proteasome subunit HC5 24.09", which has sequence homol. with known proteasome subunit HC5. The invention relates to expression of proteasome subunit HC5 sequence homolog in E. coli BL21(DE3)plySs transfected with plasmid pET-28(+). The invention also relates to preparation of antibody against proteasome subunit HC5 sequence homolog. The invention further relates to the uses of the proteasome subunit HC5 sequence homolog in treatment of proteasome subunit HC5-related diseases (such as tumor, diabetes mellitus, menstrual disorder, peptic ulcer, arrhythmia, anemia, and epilepsy).

=> s (positron emission tomography)
58520 POSITRON
12716 POSITRONS
60849 POSITRON
(POSITRON OR POSITRONS)
506316 EMISSION
93434 EMISSIONS
550703 EMISSION
(EMISSION OR EMISSIONS)
18466 TOMOGRAPHY
10 TOMOGRAPHIES
18471 TOMOGRAPHY
(TOMOGRAPHY OR TOMOGRAPHIES)
23557 TOMOG
31 TOMOGS
23568 TOMOG
(TOMOG OR TOMOGS)
29235 TOMOGRAPHY
(TOMOGRAPHY OR TOMOG)
L12 9739 (POSITRON EMISSION TOMOGRAPHY)
(POSITRON (W) EMISSION (W) TOMOGRAPHY)

=> s l12 (L) 16
L13 1718 L12 (L) L6

=> d ibib kwic

L13 ANSWER 1 OF 1718 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:101979 CAPLUS
TITLE: In vivo biodistribution and highly efficient tumour
targeting of carbon nanotubes in mice
AUTHOR(S): Liu, Zhuang; Cai, Weibo; He, Lina; Nakayama, Nozomi;
Chen, Kai; Sun, Xiaoming; Chen, Xiaoyuan; Dai, Hongjie
CORPORATE SOURCE: Department of Chemistry, Stanford University,
Stanford, CA, 94305, USA
SOURCE: Nature Nanotechnology (2007), 2(1), 47-52
CODEN: NNAABX; ISSN: 1748-3387
PUBLISHER: Nature Publishing Group
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Single-walled carbon nanotubes (SWNTs) exhibit unique size, shape and phys. properties that make them promising candidates for biol. applications. Here, we investigate the biodistribution of radio-labeled SWNTs in mice by in vivo positron emission tomog. (PET), ex vivo biodistribution and Raman spectroscopy. It is found that SWNTs that are functionalized with phospholipids bearing

polyethylene-glycol (PEG) are surprisingly stable in vivo. The effect of PEG chain length on the biodistribution and circulation of the SWNTs is studied. Effectively PEGylated SWNTs exhibit relatively long blood circulation times and low uptake by the reticuloendothelial system (RES). Efficient targeting of integrin pos. tumor in mice is achieved with SWNTs coated with PEG chains linked to an arginine-glycine-aspartic acid (RGD) peptide. A high tumor accumulation is attributed to the multivalent effect of the SWNTs. The Raman signatures of SWNTs are used to directly probe the presence of nanotubes in mice tissues and confirm the radio-label-based results.

=> s brain and l13

538747 BRAIN

25015 BRAINS

541541 BRAIN

(BRAIN OR BRAINS)

L14 297 BRAIN AND L13

=> s carbonic

44315 CARBONIC

1 CARBONICS

L15 44316 CARBONIC

(CARBONIC OR CARBONICS)

=> s l15 and l14

L16 0 L15 AND L14

=> s l14 not py>2003

3800069 PY>2003

L17 213 L14 NOT PY>2003

=> s l14 not py>2002

4853307 PY>2002

L18 193 L14 NOT PY>2002

=> d ibib abs kwic

L18 ANSWER 1 OF 193 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:7237 CAPLUS

DOCUMENT NUMBER: 141:319962

TITLE: Preparation 18F-choline analogue and its biodistribution in animals

AUTHOR(S): Tang, Ganghua; Tang, Xiaolan; Wang, Mingfang; Zhang, Lan; Li, Zhi; Luo, Lei; Huang, Zuhua

CORPORATE SOURCE: Nanfang PET Center, Nanfang Hospital, First Military Medical University, Guangzhou, 510515, Peop. Rep. China

SOURCE: Zhonghua Heyixue Zazhi (2002), 22(3), 172-174

CODEN: CITCDE; ISSN: 0253-9780

PUBLISHER: Jiangsusheng Yuanzi Yixue Yanjiuso

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB A 18F labeled choline analog, 2-18F- fluoroethyl-dimethyl 2-oxyethyl-ammonium (FECH), a tumor imaging agent, was developed. FECH was prepared via two steps displacement reaction of 18F-fluoride with 1,2-bis(tosyloxy)ethane to give the intermediate, 1-18F-fluoro-2-(tosyloxy) ethane, which was then coupled with dimethylethanolamine to prepare FECH. Radiochem. purity and biodistributions in normal mice and nude mice bearing cancer cell were determined FECH was synthesized in about 25% radiochem. yield with decay-correction and more than 99% radiochem. purity with a total radiosynthesis time of 80 min. Biodistributions of FECH in normal mice and nude mice were as follows: rapid blood clearance; high uptake in the liver, kidney, bladder and pancreas; low uptake in the brain, myocardium, stomach, intestine and bone; high in tumors in

blood, brain, heart, stomach, and muscle. A simple and practical synthesis protocol for FECH is achieved. Biodistribution of FECH in mice is very similar to that of 11C choline reported in literatures, FECH is promising to be an agent in diagnosis of tumors with PET imaging.

AB A 18F labeled choline analog, 2-18F- fluoroethyl-dimethyl 2-oxyethyl-ammonium (FECH), a tumor imaging agent, was developed. FECH was prepared via two steps displacement reaction of 18F-fluoride with 1,2-bis(tosyloxy)ethane to give the intermediate, 1-18F-fluoro-2-(tosyloxy) ethane, which was then coupled with dimethylethanolamine to prepare FECH. Radiochem. purity and biodistributions in normal mice and nude mice bearing cancer cell were determined FECH was synthesized in about 25% radiochem. yield with decay-correction and more than 99% radiochem. purity with a total radiosynthesis time of 80 min. Biodistributions of FECH in normal mice and nude mice were as follows: rapid blood clearance; high uptake in the liver, kidney, bladder and pancreas; low uptake in the brain, myocardium, stomach, intestine and bone; high in tumors in blood, brain, heart, stomach, and muscle. A simple and practical synthesis protocol for FECH is achieved. Biodistribution of FECH in mice is very similar to that of 11C choline reported in literatures, FECH is promising to be an agent in diagnosis of tumors with PET imaging.

IT Imaging agents
Positron-emission tomography
(preparation of 18F-choline analog as tumor imaging agents and its biodistribution in animals and)

=> dhis

DHIS IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> d his

(FILE 'HOME' ENTERED AT 14:45:08 ON 01 FEB 2007)

FILE 'REGISTRY' ENTERED AT 14:45:17 ON 01 FEB 2007

L1 STRUCTURE UPLOADED

L2 8 S L1

L3 218 S L1 FULL

FILE 'CAPLUS' ENTERED AT 14:45:53 ON 01 FEB 2007

L4 0 S L3/DGN

L5 199 S L3

L6 756702 S TUMOR? OR NEOPLAS? OR CANCER?

L7 26 S L6 AND L5

L8 4 S L7 NOT PY>2002

L9 70632 S (POSITRON EMISSION TOMOGRAPHY) OR PET

L10 3607 S L9 (L) L6

L11 2179 S L10 NOT PY>2002

L12 9739 S (POSITRON EMISSION TOMOGRAPHY)

L13 1718 S L12 (L) L6

L14 297 S BRAIN AND L13

L15 44316 S CARBONIC

L16 0 S L15 AND L14

L17 213 S L14 NOT PY>2003

L18 193 S L14 NOT PY>2002

=> s 15 and 112

L19 3 L5 AND L12

=> d ibib 1-3

L19 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:1354320 CAPLUS
 DOCUMENT NUMBER: 146:100561
 TITLE: Preparation of arenesulfonamide fluorescent dye
 conjugates having carbonic anhydrase inhibiting
 activity and their use as therapeutic and diagnostic
 agents
 INVENTOR(S): Supuran, Claudiu; Scozzafava, Andrea
 PATENT ASSIGNEE(S): Italy
 SOURCE: PCT Int. Appl., 46pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006137009	A2	20061228	WO 2006-IB51976	20060620
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
WO 2006137092	A1	20061228	WO 2005-IT366	20050623
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: WO 2005-IT366 A 20050623

L19 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:1354145 CAPLUS
 DOCUMENT NUMBER: 146:100560
 TITLE: Preparation of fluorescent sulfonamide derivatives
 having carbonic anhydrase inhibiting activity and
 their use as cancer therapeutic and diagnostic agents
 INVENTOR(S): Supuran, Claudiu T.; Scozzafava, Andrea
 PATENT ASSIGNEE(S): Italy
 SOURCE: PCT Int. Appl., 43pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006137092	A1	20061228	WO 2005-IT366	20050623
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,			

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
 LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
 NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
 SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
 ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF,
 CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM,
 KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG,
 KZ, MD, RU, TJ, TM
 WO 2006137009 A2 20061228 WO 2006-IB51976 20060620
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
 KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN,
 MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU,
 SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,
 US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: WO 2005-IT366 A 20050623
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
 RECORD.. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1998:687761 CAPLUS
 DOCUMENT NUMBER: 130:52370
 TITLE: Carbonic anhydrase inhibitors - Part 29: interaction
 of isoenzymes I, II and IV with benzolamide-like
 derivatives
 AUTHOR(S): Supuran, Claudiu T.; Ilies, Marc A.; Scozzafava,
 Andrea
 CORPORATE SOURCE: Universita degli Studi, Dipartimento di Chimica,
 Laboratorio di Chimica Inorganica e Bioinorganica,
 Florence, 50121, Italy
 SOURCE: European Journal of Medicinal Chemistry (1998), 33(9),
 739-751
 CODEN: EJMCA5; ISSN: 0223-5234
 PUBLISHER: Editions Scientifiques et Medicales Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 14:45:08 ON 01 FEB 2007)

FILE 'REGISTRY' ENTERED AT 14:45:17 ON 01 FEB 2007

L1 STRUCTURE UPLOADED
 L2 8 S L1
 L3 218 S L1 FULL

FILE 'CAPLUS' ENTERED AT 14:45:53 ON 01 FEB 2007

L4 0 S L3/DGN
 L5 199 S L3
 L6 756702 S TUMOR? OR NEOPLAS? OR CANCER?
 L7 26 S L6 AND L5
 L8 4 S L7 NOT PY>2002
 L9 70632 S (POSITRON EMISSION TOMOGRAPHY) OR PET

L10 3607 S L9 (L) L6
 L11 2179 S L10 NOT PY>2002
 L12 9739 S (POSITRON EMISSION TOMOGRAPHY)
 L13 1718 S L12 (L) L6
 L14 297 S BRAIN AND L13
 L15 44316 S CARBONIC
 L16 0 S L15 AND L14
 L17 213 S L14 NOT PY>2003
 L18 193 S L14 NOT PY>2002
 L19 3 S L5 AND L12

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---Logging off of STN---

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Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	71.93	244.24
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-5.46	-5.46

STN INTERNATIONAL LOGOFF AT 14:56:05 ON 01 FEB 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
 NEWS 2 "Ask CAS" for self-help around the clock
 NEWS 3 OCT 23 The Derwent World Patents Index suite of databases on STN
 has been enhanced and reloaded
 NEWS 4 OCT 30 CHEMLIST enhanced with new search and display field
 NEWS 5 NOV 03 JAPIO enhanced with IPC 8 features and functionality
 NEWS 6 NOV 10 CA/CAPLUS F-Term thesaurus enhanced
 NEWS 7 NOV 10 STN Express with Discover! free maintenance release Version
 8.01c now available
 NEWS 8 NOV 20 CA/CAPLUS to MARPAT accession number crossover limit increased
 to 50,000
 NEWS 9 DEC 01 CAS REGISTRY updated with new ambiguity codes
 NEWS 10 DEC 11 CAS REGISTRY chemical nomenclature enhanced
 NEWS 11 DEC 14 WPIDS/WPINDEX/WPIX manual codes updated
 NEWS 12 DEC 14 GBFULL and FRFULL enhanced with IPC 8 features and

functionality

NEWS 13	DEC 18	CA/CAPLUS pre-1967 chemical substance index entries enhanced with preparation role
NEWS 14	DEC 18	CA/CAPLUS patent kind codes updated
NEWS 15	DEC 18	MARPAT to CA/CAPLUS accession number crossover limit increased to 50,000
NEWS 16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 17	DEC 27	CA/CAPLUS enhanced with more pre-1907 records
NEWS 18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 19	JAN 16	CA/CAPLUS Company Name Thesaurus enhanced and reloaded
NEWS 20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 22	JAN 22	CA/CAPLUS updated with revised CAS roles
NEWS 23	JAN 22	CA/CAPLUS enhanced with patent applications from India
NEWS 24	JAN 29	PHAR reloaded with new search and display fields
NEWS 25	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
 AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

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